

Map & Photo Legend



Humpback Bay, EX-02b&c viewed from the southwest.



Free-oil Containment and Recovery, Protected Water



Exclusion Booming



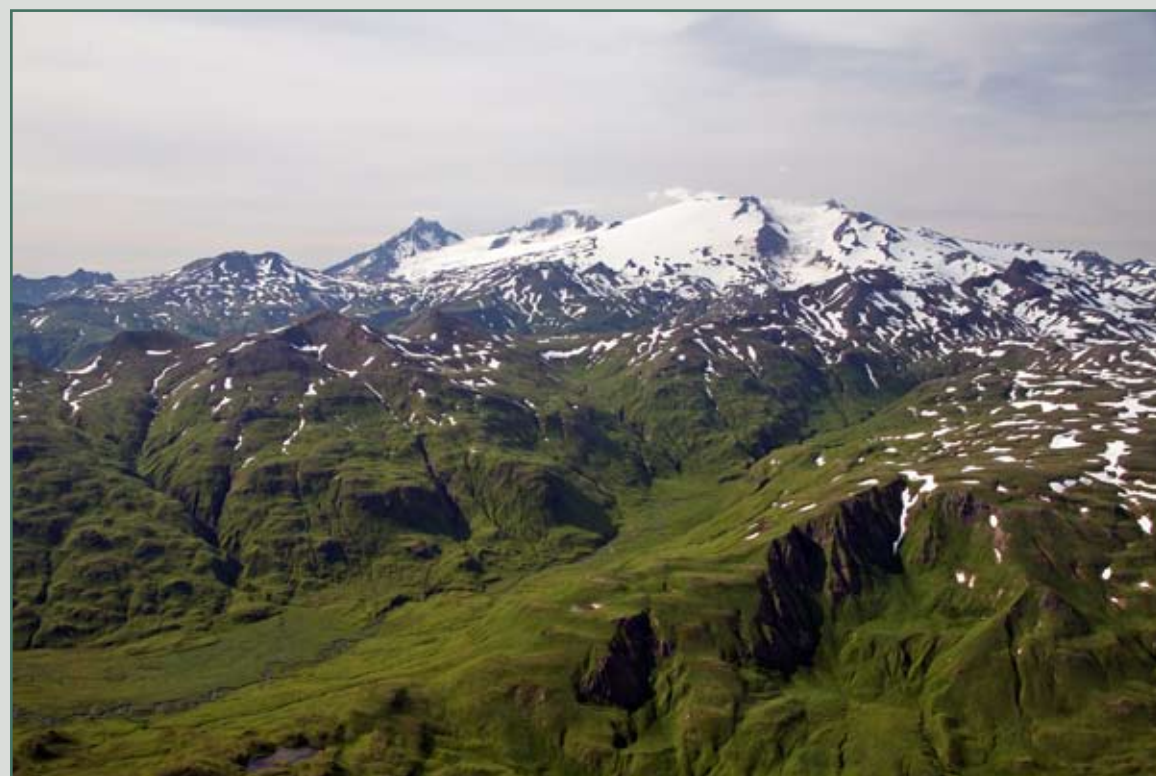
Passive Recovery



Protected-water Boom



Snare Line

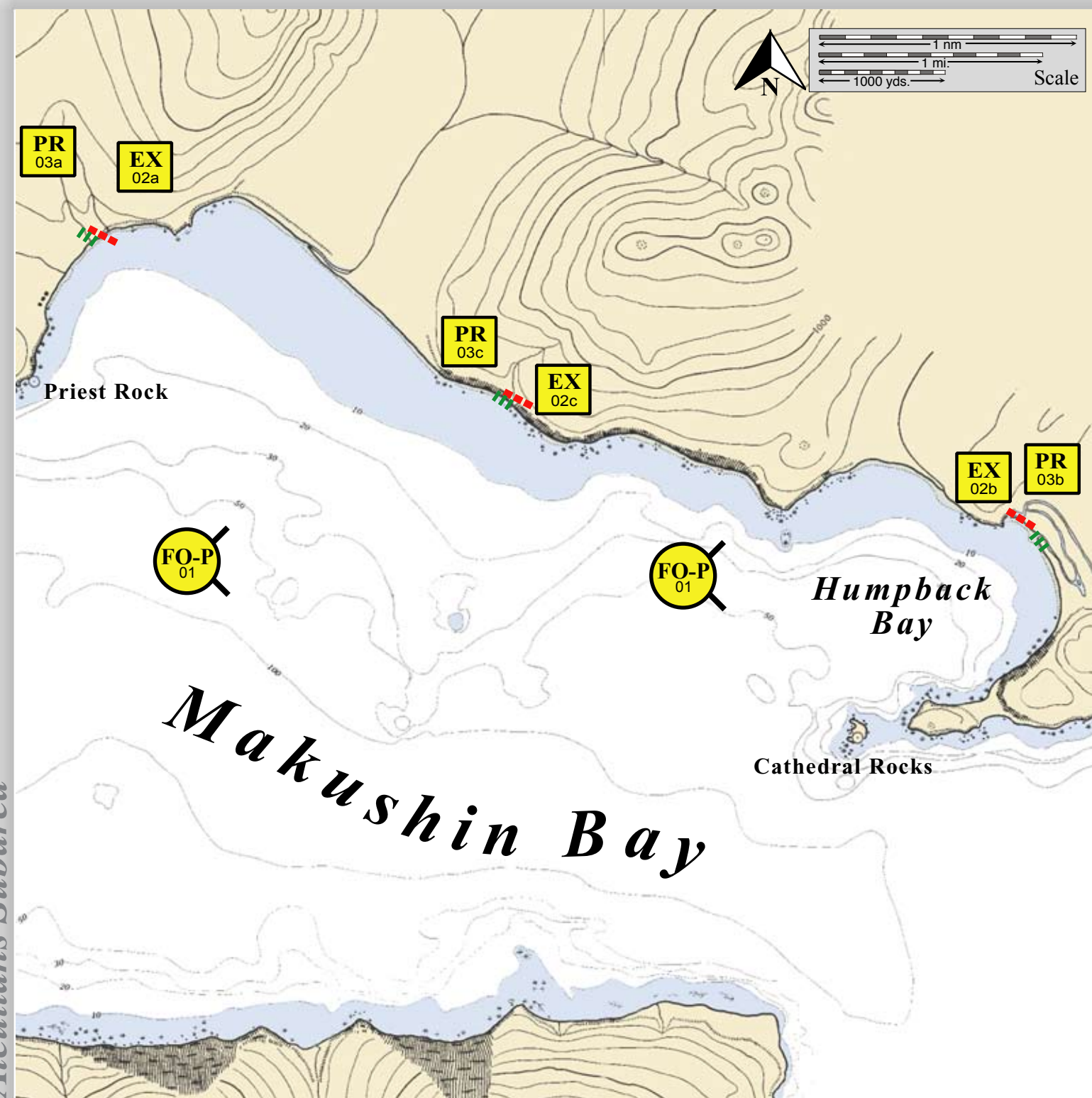


Humpback Bay viewed from the northwest.

Geographic Response Strategies for Aleutians Subarea




Mouth of Makushin Bay, AEB-09

Center of map at 53° 44.32' N Lat., 167° 01.72' W Lon.



This is not intended for navigational use.

Soundings in fathoms

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
AEB-09-01 	Makushin Bay Nearshore waters in the general area of: Lat. 53° 45.1 N Lon. 166°55.9 W	Free oil Recovery Protected Water Maximize free-oil recovery in the offshore & nearshore environment of Makushin Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Makushin Bay. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Vessel platform.	Via marine waters Chart 16517-1	Same as AEB-09-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
AEB-09-02 	Makushin Bay/ Humpback Bay Stream Locations a. Lat. 53° 46.29 N Lon. 166°59.03 W b. Lat. 53° 45.11 N Lon. 166°51.72 W c. Lat. 53° 45.31 N Lon. 166°52.44 W	Exclusion Exclude oil from impacting the identified streams and intertidal areas in Makushin Bay and Humpback Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. For boom (a), place a 300 ft. section of protected- boom across the stream at a 45° angle behind the storm berm. For (b&c) place a 200 ft. boom across the stream behind the storm berm. Tend throughout the tide.	Deployment Equipment 500 ft. protected-water boom 3 ea. small anchor systems 8 ea. anchor stakes Vessels 1 ea. class 2/3 1 ea. class 6 Personnel/Shift 5 ea. vessel crew Tending Vessels 1 ea. class 2/3 1 ea. class 6 Personnel/Shift 3 ea. vessel crew	Vessel platform.	Via marine waters Chart 16517-1	Fish- intertidal spawning-salmon (May-Sept.) Birds- waterfowl concentration, seabird nesting, shorebird concentrations Marine mammals- seals, otters Human use- commercial fishing Habitat- marsh, sheltered rocky shoreline, exposed rocky shoreline, gravel beach	This site was deployed during the Selendang Ayu Spill in 2004-2005. Title 41 permitting required from ADNR.
AEB-09-03 	Makushin Bay/ Humpback Bay Stream Locations a. Lat. 53° 46.29 N Lon. 166°59.03 W b. Lat. 53° 45.11 N Lon. 166°51.72 W c. Lat. 53° 45.31 N Lon. 166°52.44 W	Passive Recovery Place passive recovery boom at each end of the exclusion booms that extend across the stream.	Once the exclusion booms are deployed, place and anchor snare line or sorbent boom in the upper boom/shore interface. Replace as necessary to maximize the recovery.	Deployment Equipment 75 ft. snare line or sorbent boom 6 ea. anchor stakes Vessels/Personnel/Shift Same as AEB-09-02 Tending Vessels/Personnel/Shift Same as AEB-09-02	Vessel platform.	Via marine waters Chart 16517-1	Same as AEB-09-02	Vessel master should have local knowledge. Use snare line for persistent oils and sorbent boom for non-persistent oils.